

03/01/05 70 #10



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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/811,367B

DATE: 03/26/2002
TIME: 16:17:46

Input Set : A:\PTO.VSK.txt
Output Set: N:\CRF3\03262002\I811367B.raw

3 <110> APPLICANT: GEMINI SCIENCE, INC.
 4 Takahashi, Nobuaki
 5 Mikayama, Toshifumi
 7 <120> TITLE OF INVENTION: SOLUBLE MAST CELL FUNCTION ASSOCIATED ANTIGEN (MAFA)
 8 PHARMACEUTICAL COMPOSITIONS AND METHODS OF MAKING AND USING THEM
 10 <130> FILE REFERENCE: 021286/0278719
 12 <140> CURRENT APPLICATION NUMBER: 09/811,367B
 C--> 13 <141> CURRENT FILING DATE: 2002-03-12
 15 <150> PRIOR APPLICATION NUMBER: 60/190,716
 16 <151> PRIOR FILING DATE: 2000-03-17
 18 <160> NUMBER OF SEQ ID NOS: 20
 20 <170> SOFTWARE: PatentIn version 3.0
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 189
 24 <212> TYPE: PRT
 25 <213> ORGANISM: Homo sapiens
 27 <400> SEQUENCE: 1
 29 Met Thr Asp Ser Val Ile Tyr Ser Met Leu Glu Leu Pro Thr Ala Thr
 30 1 5 10 15
 32 Gln Ala Gln Asn Asp Tyr Gly Pro Gln Gln Lys Ser Ser Ser Ser Lys
 33 20 25 30
 35 Pro Ser Cys Ser Cys Leu Val Ala Ile Thr Leu Gly Leu Leu Thr Ala
 36 35 40 45
 38 Val Leu Leu Ser Val Leu Leu Tyr Gln Trp Ile Leu Cys Gln Gly Ser
 39 50 55 60
 41 Asn Tyr Ser Thr Cys Ala Ser Cys Pro Ser Cys Pro Asp Arg Trp Met
 42 65 70 75 80
 44 Lys Tyr Gly Asn His Cys Tyr Tyr Phe Ser Val Glu Glu Lys Asp Trp
 45 85 90 95
 47 Asn Ser Ser Leu Glu Phe Cys Leu Ala Arg Asp Ser His Leu Leu Val
 48 100 105 110
 50 Ile Thr Asp Asn Gln Glu Met Ser Leu Leu Gln Val Phe Leu Ser Glu
 51 115 120 125
 53 Ala Phe Cys Trp Ile Gly Leu Arg Asn Asn Ser Gly Trp Arg Trp Glu
 54 130 135 140
 56 Asp Gly Ser Pro Leu Asn Phe Ser Arg Ile Ser Ser Asn Ser Phe Val
 57 145 150 155 160
 59 Gln Thr Cys Gly Ala Ile Asn Lys Asn Gly Leu Gln Ala Ser Ser Cys
 60 165 170 175
 62 Glu Val Pro Leu His Gly Val Cys Lys Lys Val Arg Leu
 63 180 185
 66 <210> SEQ ID NO: 2
 67 <211> LENGTH: 570

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68 <212> TYPE: DNA
 69 <213> ORGANISM: Homo sapiens
 71 <400> SEQUENCE: 2

73	atgactgaca	gtgttattta	ttccatgtta	gagttgccta	cgccaaccca	agcccagaat	60
75	gactacggac	cacagcaaaa	atcttccctc	tccaaagcctt	cttggctctg	ccttggca	120
77	ataactttgg	ggcttctgac	tgcaatttctt	ctgagggtgc	tgctatacca	gtggatcctg	180
79	tgccagggct	ccaaactactc	cacttgcgc	agctgtccta	gctgcccaga	ccgctggatg	240
81	aaatatggta	accattgtta	ttatttctca	gtggaggaaa	aggactggaa	ttctagtctg	300
83	gaattctgcc	tagccagaga	ctcacacccctc	cttggatcaa	cgacaaatca	gaaatgagc	360
85	ctgctccaag	ttttccctcag	tgaggcctt	tgctggattt	gtctgaggaa	caattctggc	420
87	tggaggtggg	aagacgatc	acctctaaac	ttctcaagga	tttcttctaa	tagctttgtg	480
89	cagacatgcg	gtgccatcaa	caaaaatggt	cttcaagcct	caagctgtga	agttccctta	540
91	cacggggtgt	gtaagaaggt	cagactttga				570

95 <210> SEQ ID NO: 3
 96 <211> LENGTH: 188
 97 <212> TYPE: PRT
 98 <213> ORGANISM: Mus musculus
 100 <400> SEQUENCE: 3

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103	1					5				10					15		
105	Gln	Val	Gln	Asp	Glu	Ser	Arg	Trp	Lys	Leu	Lys	Ala	Val	Leu	His	Arg	
106							20			25					30		
108	Pro	His	Leu	Ser	Arg	Phe	Ala	Met	Val	Ala	Leu	Gly	Leu	Leu	Thr	Val	
109							35			40					45		
111	Ile	Leu	Met	Ser	Leu	Leu	Met	Tyr	Gln	Arg	Ile	Leu	Cys	Cys	Gly	Ser	
112							50			55					60		
114	Lys	Asp	Ser	Thr	Cys	Ser	His	Cys	Pro	Ser	Cys	Pro	Ile	Leu	Trp	Thr	
115							65			70					75		80
117	Arg	Asn	Gly	Ser	His	Cys	Tyr	Tyr	Phe	Ser	Met	Glu	Lys	Lys	Asp	Trp	
118							85			90					95		
120	Asn	Ser	Ser	Leu	Lys	Phe	Cys	Ala	Asp	Lys	Gly	Ser	His	Leu	Leu	Thr	
121							100			105					110		
123	Phe	Pro	Asp	Asn	Gln	Gly	Val	Lys	Leu	Phe	Gly	Glu	Tyr	Leu	Gly	Gln	
124							115			120					125		
126	Asp	Phe	Tyr	Trp	Ile	Gly	Leu	Arg	Asn	Ile	Asp	Gly	Trp	Arg	Trp	Glu	
127							130			135					140		
129	Gly	Gly	Pro	Ala	Leu	Ser	Leu	Arg	Ile	Leu	Thr	Asn	Ser	Leu	Ile	Gln	
130							145			150					155		160
132	Arg	Cys	Gly	Ala	Ile	His	Arg	Asn	Gly	Leu	Gln	Ala	Ser	Ser	Cys	Glu	
133							165			170					175		
135	Val	Ala	Leu	Gln	Trp	Ile	Cys	Lys	Lys	Val	Leu	Tyr					
136							180			185							

139 <210> SEQ ID NO: 4
 140 <211> LENGTH: 997
 141 <212> TYPE: DNA
 142 <213> ORGANISM: Mus musculus
 144 <400> SEQUENCE: 4

146	gtccctcatt	gtgttctca	ccccacttac	agccacattt	ccccactgag	tgtgaaagg	60
148	atttggtaga	gatggctgac	agctctatct	attcaacact	agagctgccg	gaggcacctc	120

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150	aagtccaaga	tgagtccaga	tggaagctca	aagctgtctt	acaccggccc	catctttccc	180
152	gctttcaat	ggtggctttg	gggctttga	ctgtgattct	catgagtcata	ctgatgtatc	240
154	aacggatcc	gtgctgcggc	tccaggact	ctacatgttc	ccactgcccc	agctgccccca	300
156	tcctctggac	gaggaatgg	agccactgtt	actattttc	aatggagaaa	aaggactgga	360
158	attctagtct	gaaattctgt	gcagacaaag	gctcacatct	ccttacattt	ccgacacaacc	420
160	agggagtgaa	gctgtttgga	gagtagctgg	gtcaggactt	ttactggatc	ggcttgagga	480
162	acattgatgg	ctggaggtgg	gaaggcggcc	cagcgctcag	cttgaggatt	cttaccaaca	540
164	gcttgataca	gaggtgcgg	gccattcaca	gaaatggcct	ccaagcctcc	agttgtgaag	600
166	ttgcttgca	gtggatctgt	aagaaggccc	tatactgtat	gatgccactg	tgtcctgagc	660
168	ctcgatctg	ccacatgtgt	ttaaaaagag	ggaatgggtc	tggggaatct	ttgtctacaa	720
170	atgtgtgtt	aacaatgcc	aaacctgtt	tgatatgcca	ttagacagag	gattagcata	780
172	ccttctggg	ggttggcctt	tccctgttgg	gcttttccg	cgactgttta	agtatttaggc	840
174	tagccattt	aagcctaaat	ctgggcaaat	caaatgataa	agcttatttta	atggataaccc	900
176	accctgcaga	tagccaccc	ggctctctca	tccttcctct	gccatctctg	tcaagagaga	960
178	gaaactatca	tcctcagaga	tgaccctgcg	catcaga			997
181	<210> SEQ ID NO: 5						
182	<211> LENGTH: 188						
183	<212> TYPE: PRT						
184	<213> ORGANISM: Rattus norvegicus						
186	<400> SEQUENCE: 5						
188	Met Ala Asp Asn Ser Ile Tyr Ser Thr Leu Glu Leu Pro Ala Ala Pro						
189	1	5		10		15	
191	Arg Val Gln Asp Asp Ser Arg Trp Lys Val Lys Ala Val Leu His Arg						
192		20		25		30	
194	Pro Cys Val Ser Tyr Leu Val Met Val Ala Leu Gly Leu Leu Thr Val						
195		35		40		45	
197	Ile Leu Met Ser Leu Leu Leu Tyr Gln Arg Thr Leu Cys Cys Gly Ser						
198		50		55		60	
200	Lys Gly Phe Met Cys Ser Gln Cys Ser Arg Cys Pro Asn Leu Trp Met						
201	65		70		75		80
203	Arg Asn Gly Ser His Cys Tyr Tyr Phe Ser Met Glu Lys Arg Asp Trp						
204		85		90		95	
206	Asn Ser Ser Leu Lys Phe Cys Ala Asp Lys Gly Ser His Leu Leu Thr						
207		100		105		110	
209	Phe Pro Asp Asn Gln Gly Val Asn Leu Phe Gln Glu Tyr Val Gly Glu						
210		115		120		125	
212	Asp Phe Tyr Trp Ile Gly Leu Arg Asp Ile Asp Gly Trp Arg Trp Glu						
213		130		135		140	
215	Asp Gly Pro Ala Leu Ser Leu Ser Ile Leu Ser Asn Ser Val Val Gln						
216	145		150		155		160
218	Lys Cys Gly Thr Ile His Arg Cys Gly Leu His Ala Ser Ser Cys Glu						
219		165		170		175	
221	Val Ala Leu Gln Trp Ile Cys Glu Lys Val Leu Pro						
222		180		185			
224	<210> SEQ ID NO: 6						
225	<211> LENGTH: 1461						
226	<212> TYPE: DNA						
227	<213> ORGANISM: Rattus norvegicus						
229	<400> SEQUENCE: 6						

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231	caccctgctt	actgtcgtca	ctccctgctg	agtgtgaagg	gcgttgggtg	gagatggccg	60
233	acaactctat	ctactcaaca	ttagagctgc	ctgctgcacc	tcgagtccaa	gatgactcca	120
235	gatggaaagg	caaagctgtc	ttacaccgac	cctgtgttc	ctaccttgt	atgtggctt	180
237	tgccccttt	gactgtgatt	ctcatgagtc	tactgttgta	ccaacggact	ctgtgctgtg	240
239	gctccaagg	ctttatgtgt	tcccagtgt	ccagtgccc	caacctctgg	atgaggaacg	300
241	ggagccactg	ttactacttc	tcaatggaga	aaaggactg	gaactctagt	ctgaagttct	360
243	gtgcagacaa	aggctcgcac	ctccttacat	ttccggacaa	ccagggagtg	aacctgttcc	420
245	aggagtatgt	ggcgaggac	ttttactgga	ttggcttgag	ggacatcgat	ggctggaggt	480
247	gggaagatgg	cccgactc	agcttaagca	ttctctctaa	cagcgtggt	cagaagtgtg	540
249	gcaccatcca	caggtgtggc	ctccacgcct	ccagttgtga	ggttgcttt	cagtggatct	600
251	gtgagaagg	cctgcctga	aggattccac	tgtgtccaa	gcctcagatc	tgccacatgt	660
253	tttcaaaaag	agggatggg	catggggaa	ctctgttac	aaaggtgtct	ttagcaaatg	720
255	ccaaacctgt	tatgatatgc	cattagacag	gcgttagcat	tccttcctgg	gagctggcat	780
257	ttttcaactg	ggcttctca	gtcatgttag	ccatttaaag	ccttaaatctg	ggcaaatgaa	840
259	atagataaaa	tttattttga	ttggctttac	tgcacaaact	caccctggct	ttctcatccc	900
261	atactctgcc	atatctatca	aagatatgtg	caaaactatt	catctgcaga	agaaccccca	960
263	ccacggtaaa	taacacatta	catagacatc	gaatagagac	agaaaagcaa	acacccctcg	1020
265	ttctcactcc	tgcttggaa	ctgaagttagc	tcaagcctga	ggtaggttgg	gaagtgcagt	1080
267	ggttaccaga	gtccaggaga	ctgaaggat	ggtagaggtt	ggtaatgg	ttggctgggt	1140
269	ttgggtgacc	atcatgatta	atgattgtt	tatgtttgc	aatatgtgt	gaacttccgg	1200
271	atagcgagg	ggaaggaccg	ttgggtttac	caaatgcctg	caggagagat	gtgctgagaa	1260
273	ccctgactgg	atgatttcca	cacacattga	aatatcacac	tgtgcccac	aaatgtgtac	1320
275	aatcattatc	tatccctaat	ttccctaaaa	attaaaagaag	tcccaattaa	aataaaaaat	1380
277	accttctgc	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1440
279	aaaaaaaaaa	aaaaaaaaaa	a				1461
283	<210> SEQ ID NO: 7						
284	<211> LENGTH: 32						
285	<212> TYPE: DNA						
286	<213> ORGANISM: Artificial Sequence						
288	<220> FEATURE:						
289	<223> OTHER INFORMATION: Description of Artificial Sequence:Primer						
291	<400> SEQUENCE: 7						
293	ccttgtgatg	gtggctttgg	ggcttttgc	tg			32
296	<210> SEQ ID NO: 8						
297	<211> LENGTH: 28						
298	<212> TYPE: DNA						
299	<213> ORGANISM: Artificial Sequence						
301	<220> FEATURE:						
302	<223> OTHER INFORMATION: Description of Artificial Sequence:Primer						
304	<400> SEQUENCE: 8						
306	actgcaaagg	aacccacaaa	ctggaggc				28
309	<210> SEQ ID NO: 9						
310	<211> LENGTH: 30						
311	<212> TYPE: DNA						
312	<213> ORGANISM: Artificial Sequence						
314	<220> FEATURE:						
315	<223> OTHER INFORMATION: Description of Artificial Sequence:Primer						
317	<400> SEQUENCE: 9						
319	atatggatcc	tccaaaggact	ctacatgttc				30

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322 <210> SEQ ID NO: 10
 323 <211> LENGTH: 34
 324 <212> TYPE: DNA
 325 <213> ORGANISM: Artificial Sequence
 327 <220> FEATURE:
 328 <223> OTHER INFORMATION: Description of Artificial Sequence:Primer
 330 <400> SEQUENCE: 10
 332 atatgcggcc gctcagtata ggaccttctt acag 34
 335 <210> SEQ ID NO: 11
 336 <211> LENGTH: 64
 337 <212> TYPE: DNA
 338 <213> ORGANISM: Artificial Sequence
 340 <220> FEATURE:
 341 <223> OTHER INFORMATION: Description of Artificial Sequence:Primer
 343 <400> SEQUENCE: 11
 345 cccggatccg catcaccatc accatcacgc ggccgcttcc aaggactcta catgttccca 60
 347 ctgc 64
 350 <210> SEQ ID NO: 12
 351 <211> LENGTH: 34
 352 <212> TYPE: DNA
 353 <213> ORGANISM: Artificial Sequence
 355 <220> FEATURE:
 356 <223> OTHER INFORMATION: Description of Artificial Sequence:Primer
 358 <400> SEQUENCE: 12
 360 atatgcggcc gctcagtata ggaccttctt acag 34
 363 <210> SEQ ID NO: 13
 364 <211> LENGTH: 73
 365 <212> TYPE: DNA
 366 <213> ORGANISM: Artificial Sequence
 368 <220> FEATURE:
 369 <223> OTHER INFORMATION: Description of Artificial Sequence:Primer
 371 <400> SEQUENCE: 13
 373 cccaaagctta caaccatggc tgaccgctct atcgcctcaa cagccgagct gccggaggca 60
 375 cctcaagtcc aag 73
 378 <210> SEQ ID NO: 14
 379 <211> LENGTH: 66
 380 <212> TYPE: DNA
 381 <213> ORGANISM: Artificial Sequence
 383 <220> FEATURE:
 384 <223> OTHER INFORMATION: Description of Artificial Sequence:Primer
 386 <400> SEQUENCE: 14
 388 cccctcgagc tacagatcct cttagatgat gagtttctgc tcgtatagga ctttcttaca 60
 390 gatcca 66
 393 <210> SEQ ID NO: 15
 394 <211> LENGTH: 32
 395 <212> TYPE: DNA
 396 <213> ORGANISM: Artificial Sequence
 398 <220> FEATURE:
 399 <223> OTHER INFORMATION: Description of Artificial Sequence:Primer

VERIFICATION SUMMARY

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L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date